

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	206	("4317083" "5760646" "6104241" "5703530" "5892397" "4401853" "4835493" "4878030" "4882547" "5418637" "5589797" "5650758" "5789976" "5812297" "5966048" "5990750" "6029285" "6111462" "4291277" "4532604" "4561111" "4967164" "4987378" "5191338" "5221908" "5304945" "5334946" "5374898" "5396190" "5430802" "5448206" "5598436" "5606286" "5740520" "5838195" "5877653" "5886573" "5898338" "5937011" "5949283" "6055278" "6078216" "6108385" "6147553" "6163395" "6388518" "3675138" "4122399" "4270151" "4414686" "4453133" "4465980" "4502076" "4506231" "4513250" "4554514" "4564816" "4580105" "4584541" "4588958" "4588909" "4600847" "4797744" "4879519" "4885551" "4929906" "4943783" "4992754" "5015965" "5023937" "5049832" "5038113" "5193224" "5204881" "5210633" "5227736" "5237288" "5243613" "5252930" "5258722" "5262734" "5266906" "5287543" "5291148" "5293547" "5304944" "5307022" "5321710" "5361156" "5363056" "5381108" "5386198" "5430416" "5436749" "5444418" "5481389" "5486789" "5489879" "5507014" "5523716" ).pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 19:49
S2	590	(375/297).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 19:49
S3	788	S1 or S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 19:49

## EAST Search History

S4	432	S3 and @pd<"20030418"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 20:44
S5	39	S4 and (predistortion) and (power near3 amplif\$6) and (quadrature near3 modulat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/12 00:05
S6	11	S5 and (LUT or (lookup near3 table))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:54
S7	0	S6 and (amplitude near2 impulse near2 response)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 19:54
S8	5	S6 and (impulse near2 response)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 19:54
S9	5	S8 and (amplitude and phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:54
S10	0	S9 and (volterra) and (memory with system)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 20:26
S11	424	(predistortion) and (power near3 amplif\$6) and (quadrature near3 modulat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 20:43

## EAST Search History

S12	395	S11 and (amplitude and phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 20:26
S13	15	S12 and (volterra) and (memory with system)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 20:26
S14	56	(predistortion) and volterra	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 20:43
S15	15	S14 and @pd<"20030418"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 21:47
S16	70	volterra and predistort\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 21:48
S17	18	S16 and @pd<"20030418"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 21:49
S18	462	polynomial and predistort\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 21:48
S19	190	S18 and @pd<"20030418"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 22:45

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S20	125	S19 and amplitude and phase	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 21:49
S21	45	S20 and (LUT or (lookup near3 table))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 21:50
S22	30	S21 and (nonlinear) and (amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 21:50
S23	23	S22 and (power near3 amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 21:50
S24	12	S5 and (ADC or ("A/D")) and (DAC or "D/A")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 22:44
S25	147	predistortion and (analog with (quadrature near3 modulator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 22:49
S26	60	S25 and @pd<"20030418"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 22:49
S27	58	S26 and (power near3 amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 22:45

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S28	11	predistortion and (analog with (baseband near2 quadrature near3 modulator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 22:54
S29	3	S28 and @pd<"20030418"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 22:55
S30	11	predistortion and (analog same (baseband near2 quadrature near3 modulator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 22:58
S31	20	predistortion and ((baseband near2 quadrature near3 modulator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:07
S32	7	S31 and @pd<"20030418"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 22:59
S33	31	predistortion and ("analog quadrature modulator")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 22:58
S34	10	S33 and @pd<"20030418"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:18
S35	0	((baseband near2 quadrature near3 modulator)) same (before with (predistorter))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:07

## EAST Search History

S36	1	((baseband near2 quadrature near3 modulator)) and (before with (predistorter))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:07
S37	1	(US-20020181611-\$).did.	US-PGPUB	OR	ON	2007/05/11 23:14
S38	4	(predistort\$4 and (phase near2 impulse near2 response))	US-PGPUB	OR	ON	2007/05/11 23:17
S39	241	(predistort\$4 and (phase near3 adjust\$5))	US-PGPUB	OR	ON	2007/05/11 23:18
S40	56	S39 and @pd<"20030418"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:38
S41	46	S40 and (power near2 amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:20
S42	5	S41 and (predistort\$4 same (FIR))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:36
S43	1	predistortion and ((electromagnetic near3 interference) with remov\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:38
S44	190	((electromagnetic near3 interference) with remov\$3) same filter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:38
S45	97	S44 and @pd<"20030418"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:38

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S46	2	S45 and (rf near3 conver\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:39
S47	1	(US-5579247-\$).did.	USPAT	OR	ON	2007/05/11 23:43
S48	1536	((375/296) or (702/190)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 23:53
S49	1793	((375/296) or (702/190) or (398/193) or (455/114.3)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/11 23:53
S50	122	S49 and (predistortion) and (power near3 amplif\$6) and (quadrature near3 modulat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:54
S51	117	S50 and (amplitude and phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:54
S52	50	S51 and (LUT or (lookup near3 table))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:54
S53	16	S52 and (volterra or polynomial)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/11 23:55


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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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1. **A Generalized Memory Polynomial Model for Digital Predistortion of RF P**  
 Morgan, D.R.; Ma, Z.; Kim, J.; Zierdt, M.G.; Pastalan, J.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Sig](#)  
[IEEE Transactions on\]](#)  
 Volume 54, Issue 10, Oct. 2006 Page(s):3852 - 3860  
 Digital Object Identifier 10.1109/TSP.2006.879264  
[Abstract](#) | [Full Text: PDF\(688 KB\)](#) IEEE JNL  
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2. **Digital predistortion linearizes wireless power amplifiers**  
 Wan-Jong Kim; Stapleton, S.P.; Jong Heon Kim; Edelman, C.;  
[Microwave Magazine, IEEE](#)  
 Volume 6, Issue 3, Sept. 2005 Page(s):54 - 61  
 Digital Object Identifier 10.1109/MMW.2005.1511914  
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- ☒ 1. A least-squares/Newton method for digital predistortion of wideband sig  
Lei Ding; Zhengxiang Ma; Morgan, D.R.; Zierdt, M.; Pastalan, J.;  
[Communications, IEEE Transactions on](#)  
Volume 54, Issue 5, May 2006 Page(s):833 - 840  
Digital Object Identifier 10.1109/TCOMM.2006.873996  
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## Digital predistortion of wideband signals based on power amplifier model with memory

[Kim, J.](#) [Konstantinou, K.](#)

Lucent Technol. Bell Labs., Whippany, NJ;

This paper appears in: [Electronics Letters](#)

Publication Date: 8 Nov 2001

Volume: 37, Issue: 23

On page(s): 1417-1418

ISSN: 0013-5194

References Cited: 5

CODEN: ELLEAK

INSPEC Accession Number: 7123399

Digital Object Identifier: 10.1049/el:20010940

Posted online: 2002-08-06 23:59:40.0

### Abstract

Memory effects in the power amplifier limit the performance of digital predistortion for wideband signals. Algorithms that take into account such effects are proposed. Measured results are presented for multicarrier UMTS signals to demonstrate the effectiveness of the new approach.

### Index Terms

#### Indexing

##### Controlled Indexing

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### Author Keywords

Not Available

### References

No references available on IEEE Xplore.

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- 1 Thermal memory effects modeling and compensation in RF power amplifiers and predistortion linearizers, Boumaiza, S.; Ghannouchi, F.M.  
*Microwave Theory and Techniques, IEEE Transactions on*  
On page(s): 2427- 2433, Volume: 51, Issue: 12, Dec. 2003  
[Abstract](#) | [Full Text: PDF](#) (479)
- 2 Behavioral modeling of nonlinear RF power amplifiers considering memory effects, Hyvonen, J.S.  
*Microwave Theory and Techniques, IEEE Transactions on*  
On page(s): 2495- 2504, Volume: 51, Issue: 12, Dec. 2003  
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- 3 Effects of even-order nonlinear terms on power amplifier modeling and predistortion for  
Zhou, G.T.  
*Vehicular Technology, IEEE Transactions on*  
On page(s): 156- 162, Volume: 53, Issue: 1, Jan. 2004  
[Abstract](#) | [Full Text: PDF](#) (272)
- 4 A robust digital baseband predistorter constructed using memory polynomials, Lei Ding;  
Morgan, D.R.; Zhengxiang Ma; Kenney, J.S.; Jaehyeong Kim; Giardina, C.R.  
*Communications, IEEE Transactions on*  
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- 5 Orthogonal polynomials for complex Gaussian processes, Raich, R.; Zhou, G.T.  
*Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing Transactions on]*  
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- 6 Orthogonal polynomials for power amplifier modeling and predistorter design, Raich, R.  
G.T.  
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- 7 Behavioral modeling of RF power amplifiers based on pruned volterra series, Zhu, A.;  
*Microwave and Wireless Components Letters, IEEE*  
On page(s): 563- 565, Volume: 14, Issue: 12, Dec. 2004  
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- 8 Feedback quantization in crosscorrelation predistorters, Kokkeler, A.B.J.  
*Microwave and Wireless Components Letters, IEEE*  
On page(s): 552- 554, Volume: 15, Issue: 9, Sept. 2005  
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- 9 Wide-band dynamic modeling of power amplifiers using radial-basis function neural networks  
Wisell, D.; Ronnow, D.  
*Microwave Theory and Techniques, IEEE Transactions on*  
On page(s): 3422- 3428, Volume: 53, Issue: 11, Nov. 2005  
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 [Select All](#) [Deselect All](#)☒ 1. Analysis and linearization of a broadband microwave phase modulator using system approach

Celka, P.; Hasler, M.J.; Azizi, A.;

[Microwave Theory and Techniques, IEEE Transactions on](#)

Volume 44, Issue 12, Part 1, Dec. 1996 Page(s):2246 - 2255

Digital Object Identifier 10.1109/22.556453

[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(972 KB) IEEE JNL[Rights and Permissions](#)☒ 2. Transfer characteristic of  $IM_3$  relative phase for a GaAs FET amplifier

Suematsu, N.; Iyama, Y.; Ishida, O.;

[Microwave Theory and Techniques, IEEE Transactions on](#)

Volume 45, Issue 12, Part 2, Dec. 1997 Page(s):2509 - 2514

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- ☐ 2. **A new Volterra predistorter based on the indirect learning architecture**  
 Changsoo Eun; Powers, E.J.;  
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 Volume 45, Issue 1, Jan. 1997 Page(s):223 - 227  
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- ☐ 3. **A robust digital baseband predistorter constructed using memory polyn**  
 Lei Ding; Zhou, G.T.; Morgan, D.R.; Zhengxiang Ma; Kenney, J.S.; Jaehyeong C.R.;  
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Microwave Theory and Techniques, IEEE Transactions on  
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Youngcheol Park; Kenney, J.S.;  
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